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Implementing typed intermediate languages

Zhong Shao, Christopher League, Stefan Monnier September 1998 ACM SIGPLAN Notices, Proceedings of the third ACM SIGPLAN international conference on Functional programming, Volume 34 Issue 1

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index

Recent advances in compiler technology have demonstrated the benefits of using strongly typed intermediate languages to compile richly typed source languages (e.g., ML). A typepreserving compiler can use types to guide advanced optimizations and to help generate provably secure mobile code. Types, unfortunately, are very hard to represent and manipulate efficiently; a naive implementation can easily add exponential overhead to the compilation and execution of a program. This paper describes our ...

On parallel execution of multiple pipelined hash joins

Hui-I Hsiao, Ming-Syan Chen, Philip S. Yu

May 1994 ACM SIGMOD Record, Proceedings of the 1994 ACM SIGMOD international conference on Management of data, Volume 23 Issue 2

Full text available: pdf(1.24 MB)

Additional Information: full citation, abstract, references, citings, index terms

In this paper we study parallel execution of multiple pipelined hash joins. Specifically, we deal with two issues, processor allocation and the use of hash filters, to improve parallel execution of hash joins. We first present a scheme to transform a bushy execution tree to an allocation tree, where each node denotes a pipeline. Then, processors are allocated to the nodes in the allocation tree based on the concept of synchronous execution time such that inner relations (i.e., hash tables) ...

Query evaluation techniques for large databases

Goetz Graefe

June 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...



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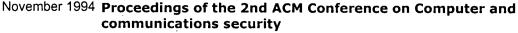
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Parallel collision search with application to hash functions and discrete logarithms
Paul C. van Oorschot, Michael J. Wiener



Full text available: pdf(984.91 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Current techniques for collision search with feasible memory requirements involve pseudorandom walks through some space where one must wait for the result of the current step before the next step can begin. These techniques are serial in nature, and direct parallelization is inefficient. We present a simple new method of parallelizing collision searches that greatly extends the reach of practical attacks. The new method is illustrated with applications to hash functions and discrete logari ...

Fast joins using join indices

Zhe Li, Kenneth A. Ross

April 1999 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 1

Full text available: pdf(263.06 KB) Additional Information: full citation, abstract, index terms

Two new algorithms, "Jive join" and "Slam join," are proposed for computing the join of two relations using a join index. The algorithms are duals: Jive join range-partitions input relation tuple ids and then processes each partition, while Slam join forms ordered runs of input relation tuple ids and then merges the results. Both algorithms make a single sequential pass through each input relation, in addition to one pass through the join index and two passes through a te ...

Keywords: Decision support systems, Query processing

Management of data

Research sessions: query progress: Toward a progress indicator for database queries
Gang Luo, Jeffrey F. Naughton, Curt J. Ellmann, Michael W. Watzke
June 2004 Proceedings of the 2004 ACM SIGMOD international conference on

Full text available: pdf(228.58 KB) Additional Information: full citation, abstract, references

Many modern software systems provide progress indicators for long-running tasks. These progress indicators make systems more user-friendly by helping the user quickly estimate how much of the task has been completed and when the task will finish. However, none of the existing commercial RDBMSs provides a non-trival progress indicator for long-running queries. In this paper, we consider the problem of supporting such progress indicators.



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## The Whirlpool Hash Function

The W block cipher used by WHIRLPOOL is very similar to the AES algorithm. ... The WHIRLPOOL hashing function is named after the Whirlpool galaxy in Canes ... planeta.terra.com.br/informatica/ paulobarreto/WhirlpoolPage.html - 12k - Cached - Similar pages

## RFC1810: Report on MD5 Performance. J. Touch. June 1995. (Format:...

The first block is hashed with an initial seed, resulting in a hash. ... The 64 steps are 16 groups of 4 steps, one step per intermediate hash word. ... rfc1810.x42.com/ - 18k - Cached - Similar pages

#### RFC1810

A,B,C,D intermediate hash words X[i] input data block T[i] sine table lookup << i rotate i bits F logical functions of 3 args. The subscripts to X, I, ... www.scit.wlv.ac.uk/rfc/rfc18xx/RFC1810.html - 16k - Cached - Similar pages

## [DOC] COBRA(tm) Consultative Products For Windows(tm)

File Format: Microsoft Word 97 - View as HTML rc = HASH.MD5(LengthRead,2,Block,Digest,Work);. if (rc != 0). {. printf("\nFailed to hash intermediate block");. return(0); ... www.secure-hash-algorithm-md5-sha-1.co.uk/manual.doc - Similar pages

#### **Funnels**

Let k1 and k2 be text blocks, and z the internal state of the hash function. ... For every intermediate point in the mixing step, consider running the ... burtleburtle.net/bob/hash/funnels.html - 13k - Cached - Similar pages

#### Good Stuff: RFC 1810

When the last block is computed, it's "next-seed' value becomes the hash for ... from RFC-1321 [3]): A,B,C,D intermediate hash words X[i] input data block ... www.good-stuff.co.uk/useful/rfc.php?rfc=1810 - 23k - Cached - Similar pages

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The hash function is then computed iteratively using these blocks. Starting ... the final hash value is not the intermediate hash value of a longer message. ... groups.yahoo.com/group/the gdf/message/16911 - 18k - Cached - Similar pages

## RFC 1810 - Report on MD5 Performance

When the last block is computed, it's "next-seed' value becomes the hash for ... from RFC 1321 [3]): A,B,C,D intermediate hash words X[i] input data block ... www.rfc-archive.org/getrfc.php?rfc=1810 - 33k - Cached - Similar pages

#### rfc1810

This RFC uses the following notation (as from RFC-1321 [3]): A,B,C,D intermediate hash words X[i] input data block T[i] sine table lookup << i rotate i bits ... ietfreport.isoc.org/idref/rfc1810/ - 19k - Cached - Similar pages

#### [DOC] Exam0

File Format: Microsoft Word 2000 - View as HTML A hash index on B would return 10000 block references, whereas there are only ... Underflow occurs at intermediate level, merging 2 intermediate nodes (one ...